

Claims

1. A hydrodynamic brake comprising a stator (1) which has an annular shell (3) with a multiplicity of blades (4), a rotor (2) which has a corresponding annular shell (5) with a number of blades (6), which annular shells (3, 5) of the rotor (2) and stator (1) are so arranged that they form a toroidal space (7), a medium which is intended to be supplied to the toroidal space (7) for a braking action to be effected, and a number of components (24-33) for allowing regulation of the flow of said medium, characterised in that the hydrodynamic brake incorporates a structure with at least three recesses (14-23) which each have an opening in a substantially common plane (A) and which are each intended to accommodate one of said components (24-33).
2. A hydrodynamic brake according to claim 1, characterised in that said recesses are incorporated in a first element (10) of the hydrodynamic brake and that a second element (11) of the hydrodynamic brake is detachably fittable along a connecting region (12) to the first element (10) so that said elements (10, 11) in a fitted state form a housing which surrounds said components.
3. A hydrodynamic brake according to claim 2, characterised in that the connecting region (12) has an extent in said plane (A).
4. A hydrodynamic brake according to claim 2 or 3, characterised in that a gasket (13) is arranged in the connecting region (12) between said first element (10) and said second element (11).
5. A hydrodynamic brake according to any one of the foregoing claims, characterised in that one of said components is a valve means (24-25, 27-32).
6. A hydrodynamic brake according to any one of the foregoing claims, characterised in that one of said components is a gear pump (26).

7. A hydrodynamic brake according to any one of the foregoing claims, characterised in that one of said components is an accumulator (33).

8. A hydrodynamic brake according to any one of the foregoing claims, characterised
5 in that the hydrodynamic brake incorporates a storage space (34) for the medium.

9. A hydrodynamic brake according to claim 2, characterised in that the first element
(10) incorporates the stator (1) and the rotor (2) and that the second element (11) is of
cover-like design.

10

10. A hydrodynamic brake according to any one of the foregoing claims, characterised
in that the first element (10) incorporates in its structure at least one duct to allow
transfer of the medium.